

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

31780

7590

07/01/2003

ERIC ROBINSON PMB 955 21010 SOUTHBANK ST. POTOMAC FALLS, VA 20165

EXAMINER	
JACOBSON, TONY M	-

ART UNIT

CLASS-SUBCLASS

2644

455-306000

DATE MAILED: 07/01/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/247,826	02/11/1999	KENICHI SHIRAISHI	0670-208	8094

TITLE OF INVENTION: METHOD FOR REMOVING AM NEIGHBORING INTERFERENCE AND A CIRCUIT FOR THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	10/01/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
Alexandria, Virginia 22313-1450

<u>Fax</u> (703)746-4000

appropriate. All further corr indicated unless corrected b maintenance fee notifications	elow or directed otherwis	e Patent, advance order se in Block 1, by (a) sp	FEE and PUBLIC is and notification pecifying a new co	ATION FEE (if of maintenance for espondence ad-	required). Blocks 1 through 4 sees will be mailed to the curren dress; and/or (b) indicating a sep	should be completed where t correspondence address as parate "FEE ADDRESS" for
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31780 759 ERIC ROBINSON				accompanying formal drawing	ittal. This certificate cannot papers. Each additional paper, must have its own certificate of its control of i	such as an assignment or mailing or transmission.
PMB 955					Certificate of Mailing or Tran	smission
21010 SOUTHBAN POTOMAC FALLS				I hereby certify United States Penvelope address transmitted to the	that this Fec(s) Transmittal is ostal Service with sufficient postal seed to the Box Issue Fee address the USPTO, on the date indicated by	being deposited with the age for first class mail in an above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIR	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/247,826	02/11/1999	· K	ENICHI SHIRAIS	НІ	0670-208	8094
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300		\$0	\$1300	10/01/2003
EXAMIN	ER	ART UNIT	CLASS-SUBCL	ASS	•	
JACOBSON, T	TONY M	2644	455-30600	0		
1. Change of correspondence CFR 1.363).		(the names of up	on the patent fro to 3 registered alternatively, (2)	patent attorneys	
☐ Change of corresponder Address form PTO/SB/122	2) attached.	Correspondence	single firm (ha	ving as a memb	per a registered	
☐ "Fee Address" indicatio PTO/SB/47; Rev 03-02 or Number is required.	n (or "Fee Address" Indic more recent) attached. U	ation form se of a Customer	registered paten	nt) and the nan t attorneys or age e will be printed.	ents. If no name	
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print o	r type)		
PLEASE NOTE: Unless an been previously submitted to (A) NAME OF ASSIGNEE			rill appear on the p e cover. Completio ESIDENCE: (CITY		of assignee data is only appropriated of a substitute for filing an assign COUNTRY)	e when an assignment has gnment.
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Please check the appropriate a			<u> </u>	U individual	corporation or other private g	roup entity U government
4a. The following fee(s) are e	nciosed:		yment of Fee(s): neck in the amount	of the fea(s) is er	nclosed	
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Commissioner for Patents is r	equested to apply the Issu				enclose an extra copy of this ously paid issue fee to the applicat	
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NOTE; The Issue Fee and other than the applicant; a interest as shown by the reco	registered attorney or a ords of the United States I	gent; or the assignee of atent and Trademark O	or other party in fice.			
This collection of informati obtain or retain a benefit by application. Confidentiality estimated to take 12 minute completed application form case. Any comments on the suggestions for reducing the Patent and Trademark O 22313-1450. DO NOT SE SEND TO: Commissioner for the state of the state	on is required by 37 CF, y the public which is to is governed by 35 U.S.C. is to complete, including to the USPTO. Time we he amount of time you is burden, should be sent ffice, U.S. Department or Patents. Alexandria. Vi	R 1.311. The informatic file (and by the USPTO 122 and 37 CFR 1.14. The gathering, preparing, and fill vary depending upo require to complete to to the Chief Information of Commerce, Alexe ETED FORMS TO TI reinia 22313-1450.	on is required to to to process) an This collection is d submitting the on the individual his form and/or on Officer, U.S. andria, Virginia HIS ADDRESS.			

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.urpfo.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/247,826		02/11/1999	KENICHI SHIRAISHI	0670-208	8094
31780	7590	07/01/2003		EXAMINI	ER
ERIC ROBIN	SON			JACOBSON, 7	TONY M
PMB 955 21010 SOUTHI	RANK ST	,		ART UNIT	PAPER NUMBER
POTOMAC FA UNITED STAT	LLS, VA	•		2644	
UNITED STAT	ES			DATE MAILED: 07/01/2003	3

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



United States Patent and Trademark Office

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APPLICATION N	O	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/247,826		02/11/1999	KENICHI SHIRAISHI	0670-208 8094	
31780	7590	07/01/2003		EXAMIN	ER
ERIC ROBI	NSON			JACOBSON,	ГОЛУ М
21010 SOUT	HBANK S	T		ART UNIT	PAPER NUMBER
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				DATE MAILED: 07/01/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	Application No.	Applicant(s)	
•	09/247,826	SHIRAISHI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Tony M. Jacobson	2644	
	Tony III. Gacobson	2011	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due c	d ourse. THIS
 This communication is responsive to the original application The allowed claim(s) is/are 1-3. The drawings filed on are accepted by the Examine Acknowledgment is made of a claim for foreign priority und All b) Some* c) None of the: Certified copies of the priority documents have 	r. ler 35 U.S.C. § 119(a)-(d) or (f).		
2. ☐ Certified copies of the priority documents have			
3. ☐ Copies of the certified copies of the priority do			on from the
— ·	cuments have been received in this i	tational stage applicati	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	-d 25 I I S C S 110/a) /ta a provisi	onal application)	
5. Acknowledgment is made of a claim for domestic priority u		onar application).	
(a) The translation of the foreign language provisional a			
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. 99 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply co this application. THIS THREE-MON	omplying with the requir	ements noted EXTENDABLE
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas	nitted. Note the attached EXAMINER on(s) why the oath or declaration is	'S AMENDMENT or No deficient.	OTICE OF
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing (c) ☐ including changes required by the attached Examiner 	correction filed, which has be 's Amendment / Comment or in the C	een approved by the Ex Office action of Paper N	lo:
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should be written on the drawin	igs in the front (not the l	ack) of
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T	SIT OF BIOLOGICAL MATERIAL IN THE DEPOSIT OF BIOLOGICAL MA	nust be submitted. N TERIAL.	ote the
Attachment(s)			
 1⊠ Notice of References Cited (PTO-892) 3⊠ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4∐ Interview Summa 6∐ Examiner's Ame	al Patent Application (P ary (PTO-413), Paper N ndment/Comment ement of Reasons for A	No

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Application/Control Number: 09/247,826

Art Unit: 2644

DETAILED ACTION

Drawings

1. The drawings filed on 11 February 1999 are acceptable subject to correction of the informalities indicated on the attached "Notice of Draftsperson's Patent Drawing Review," PTO-948. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.185(a). Failure to take corrective action within the set (or extended) period will result in **ABANDONMENT** of the application.

Application/Control Number: 09/247,826

Art Unit: 2644

Allowable Subject Matter

- 2. The following is an examiner's statement of reasons for allowance:
- 3. Claims 1 and 2 recite a method and corresponding apparatus for removing neighboring interference in an AM receiver, comprising multiplying a received signal by a pair of signals having frequencies equally above and below the frequency of an interfering signal which is to be eliminated, respectively; filtering the resulting multiplied signals to remove high frequency components; subtracting one of the resulting filtered signals from the other filtered signal; and filtering the resulting subtracted signal to remove high-frequency components and obtain the desired AM signal.
- 4. Heinzmann (USPN 5,603,110) discloses a method and apparatus (Fig. 4) wherein the received signal is multiplied by a pair of signals having frequencies located equally above and below the frequency of an interfering signal. (A signal twice the frequency of the interfering signal and a signal of zero frequency are respectively above and below the frequency of an interfering signal by an amount equal to the frequency of the interfering signal.) The result of the multiplication is filtered to remove undesired frequency components produced by the multiplication, which may be low or high frequencies. Since the received signal is multiplied by the sum of the two signals having frequencies equally above and below the frequency of the interfering signal, respectively, in a single stage, and the subtraction is performed indirectly as a consequence of the 90-degree phase shifting of the generated signal prior to the squaring operation, Heinzmann does not include steps or means for separately

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Art Unit: 2644

removing high frequency components from each of two multiplied signals, nor subtracting one of the resulting signals from the other to obtain a subtraction signal.

- 5. Muzzi (USPN 3,628,155) discloses a method and apparatus (Fig. 9) for intensifying a desired AM signal including the steps and means to multiply the received signal by a pair of signals spectrally located equally above and below the frequency of the desired signal, instead of an undesired signal as in the present invention, and the two multiplied and filtered signals are added so that the desired signal is reinforced, instead of being subtracted to cancel an undesired signal, as in the present invention.
- 6. Dilley (USPN 4,181,892) discloses an apparatus for eliminating broadband noise from a received RF signal, in which a received signal is multiplied by a pair of generated signals, however the pair of signals are not spectrally located equally above and below an interfering signal, rather one multiplying signal frequency is selected to produce a normal intermediate frequency signal as a difference frequency at the output of the corresponding multiplier, and the other is varied rapidly over the entire bandwidth of the input RF amplifier. The multiplied signals are filtered to remove high-frequency components (and low-frequency components) and the two derived signals (after being amplified and processed by energy detector circuits) are subtracted to produce the desired AM modulation wave.
- 7. Although the prior art cited uses structures or methods similar to recited in claims 1 and 2, the examiner finds no teaching in the prior art to combine or modify any of those references to produce the claimed invention.

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Art Unit: 2644

- Claim 3 recites a circuit for removing a pair of AM neighboring interference 8. signals located symmetrically about a desired signal in an AM receiver, comprising (paraphrased) three local oscillators generating signals, the first and second of which have frequencies equally above and below the frequency of a first interference signal that is to be eliminated, respectively, and the third of which has a frequency equal to that of the second, plus twice the difference between the frequencies of the two interfering signals; three multipliers multiplying the input signal separately by the three generated local oscillator signals; three low-pass filters separately filtering the outputs of the three multipliers to remove high-frequency components from the outputs of the multipliers; a subtractor to subtract the outputs of the second and low-pass filters from the output of the first low-pass filter; and a bandpass filter to filter the output of the subtractor and eliminate frequency components located more than half the difference between the frequencies of the signals that were to originally be eliminated above or below center frequency of the (shifted) desired signal (which is now half the frequency of the lower-frequency one of the two original interference signals to be eliminated). The structure is basically that of claim 2, with the addition of the third local oscillator, multiplier, and low-pass filter and the replacement of the low-pass filter at the output with a band pass filter.
- 9. The circuit of claim 3 differs from the prior art in the same ways as indicated above regarding claims 1 and 2. The additional third local oscillator, multiplier, and low-pass filter elements further distinguish the invention of claim 3 over the prior art. While the method and apparatus of Heinzmann described above in regard to claims 1 and 2 is

capable of removing multiple interfering signals, the apparatus disclosed is substantially different.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 11. French et al. (USPN 4,864,643) disclose a system for eliminating adjacent channel interference or image frequencies in a radio receiver using well-known quadrature modulation techniques to produce a normal signal and a signal in which an interfering signal component is polarity-inverted, which can reject either a sum frequency or a difference frequency by selectively adding or subtracting the two modified signals.
- 12. Carson (USPN 5,134,723) discloses a system for enhancing the sensitivity of a radio receiver by canceling broadband noise, in which an input signal is processed separately through a normal channel and a noise channel and the resulting signals are subtracted after audio detection to remove a noise component. The multiplying frequency in the noise channel is selected to cause the noise channel to process an arbitrary portion of the spectrum near the desired signal, containing noise only, with the assumption that a broadband noise signal is similar in near portions of the spectrum.

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Art Unit: 2644

13. Meyers (USPN 4,992,747) discloses a system for separating partially-overlapping FM signals by using successive phase-locked loop stages to capture (and simultaneously demodulate) a dominant signal, subtracting the captured dominant signal from the input to that particular stage, and supplying the subtracted signal to a subsequent stage for detection of the next dominant signal, and so on.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony M. Jacobson whose telephone number is (703) 305-5532. The examiner can normally be reached on Mon. -Fri. 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9315 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

tmj June 27, 2003

FCRESTER W. ISEN
SUPER CORV PAGENT EXAMINER
COLUTER 2603

		ALL	OWED REVIEW		
Application Number 09/247,826	rt Unit 2644	Notice of Allowance 01-Jul-03	Examiner JACOBSON, TONY		riewer nder, Marc
		Omi	itted Rejections		
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	ALLOWED REVIEW			
Application Number 09/247,826	Notice Of Allowance 01-Jul-03	Reviews Bookbinder,		
	SECTION XI. File Wrapper			
Reasons for Allowance (R				
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If no,	mpiete:		○ No	
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Was there an interview regaction reviewed?	garding the merits of the case relevant to the	○ Yes	● No	,
If yes,				
Was Summary Form PTOL	413 completed?	○Yes	\circ_{No}	
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Claims				J
	inappropriate manner on non-substantive issue	es? O Yes	⊙ No	
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Comments:				
Sequence Rules				
•	n nucleotide and/or amino acid sequences?	○ _{Yes}	⊙ No	
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Application Number	Notice Of Allowance	Rev	viewer	
09/247,826	01-Jul-03	Bookbi	nder, Marc	
	Section XIII. Other	Issues		
ere all claims for priority pr	roperly treated?	● Yes.	○ No ○ N/A	١
a restriction was made, wa	s it proper?	○ _{Yes}	O No ● N/A	١
ere all matters of substance fidavits/declarations evalua	e in applicant's response and ted sufficiently?	\circ_{Yes}	○ No · ● N/A	١
ther issues?		●Yes	○ _{No}	
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ALLOWED REVIEW **Notice Of Allowance Application Number** Reviewer 09/247,826 01-Jul-03 Bookbinder, Marc Section XIV. Indicia of Commendable/Outstanding Patentability Determination: Indicia of Commendable/Outstanding The record developed by the examiner shows an indication of allowable subject matter at the **✓**Yes earliest time which is consistent with the file record and prosecution of the application. Through the rejections and arguments made by the examiner, an appropriate line of □Yes patentability is established which results in amendment(s) properly limiting the scope of an The search record in the application clearly shows that the examiner construes the claimed ☐ Yes subject matter in its broadest reasonable interpretation and seeks to develop prior art from the appropriate peripherally related art areas. Action Taking: Indicia of Commendable/Outstanding The statements of rejection, objection, and response to arguments clearly and concisely present the \(\subseteq \text{Yes} \) positions taken or recommended in the resulting Office actions including a thorough substantive explanation to convey those positions to the applicant. The Office action usually refer an applicant's attention to relevant and helpful elements, figures, **☐Yes** and/or text upon which the Office action relies to support the position taken. The Office action indicates that the principle of compact prosecution is being fully followed. Note, ☐ Yes the principle of compact prosecution comprises conducting an initial search which is as complete as possible including consultation with an expert in the art where the examiner lacks such expertise (see search guidelines); placing art of record which meets both the concept and the wording of the claims as well as other art which is pertinent to significant though unclaimed features of the disclosed invention; and issuing a first Office action which clearly explains the examiner's position on each essential issue in such detail that absent some unexpected consideration the next Office action may be made final. Patent Examining Function: Indicia of Commendable/Outstanding Check one of the following statement if applicable: The Office action is formulated to advance the prosecution, correct other informalities, and develop a complete file wrapper record. The Office action also is such that it leaves little room for improvement. The Office action clearly and concisely presents the positions taken. ☐ The entire Office action is complete and accurate and does not require any substantial revision. The Office action effectively conveys the positions taken. Comments:

ALLOWED REVIEW

Application Number

Notice Of Allowance

Reviewer

09/247,826

01-Jul-03

Bookbinder, Marc

Search			
Initial Data Capture Points			
Was art provided from an ESS before first action?	O Yes	\bigcirc No	
Was any IDS improperly treated?	O Yes	\circ No	● N/A
Was a text search performed by the Examiner?	Yes	O No	
Was it non-patent literature?	Yes	O No	
Is the search strategy printout present?	Yes	O No	O N/A
Was the inventorship searched by the Examiner?	O Yes	No	
If any TC or specialized art has identified specific search requirements in addition to or in exclusion of the above requirements, were these specific requirements complied with?	○ Yes	O No	N/A
Were foreign patent documents cited by the Examiner on an 892?	O Yes	● No	
Were NPL documents cited by the Examiner on an 892?	O Yes	No	
Did the Examiner perform a new search in a 2nd/subsequent action?	O Yes	O No	N/A
Did the Examiner update all searches in a subsequent action?	O Yes	O No	● N/A
Did an ESS submit a new search report in a 2nd/subsequent action?	O Yes	O No	O N/A
Was there new art found by the Examiner that was applied in a 2nd/subsequent action?	○ Yes	O No	● N/A
Has a search been performed by the Reviewer?	Yes	\bigcirc No	
Overall Rating of the Search Adequate			
Less than Adequate			
Comments:			
It is noted that the class/subclass designated as the original classification been searched. Note MPEP 904.02(a).	on the fil	e wrappe	er has not